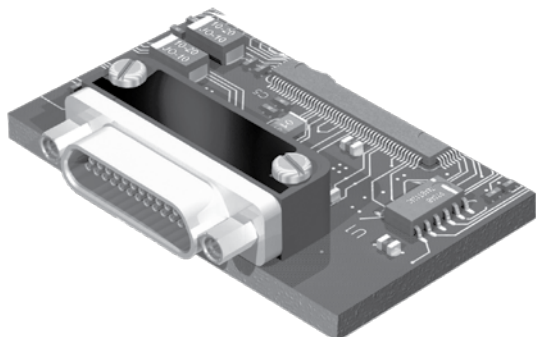


## GMR7590 Right Angle Micro-D Connectors



**Save Space On Your Circuit Board** – These Micro-D connectors feature .075 X .075 inch terminal spacing. Glenair's GMR7590 offers size and weight savings compared to traditional .100" pitch connectors.

**High Performance** – Approved for British Standard BS9000, GMR7590 connectors meet the performance requirements of MIL-DTL-83513. Gold plated TwistPin contacts assure best electrical and mechanical performance.

### HOW TO ORDER GMR7590 RIGHT ANGLE .075" PITCH CONNECTORS

Series	Number of Contacts	Contact Type	Tail Length In. (mm.)	Shell Plating Finish	Hardware Option			Gold-Plated Terminal Mod Code	
GMR7590 Micro-D Metal Shell, Right Angle Mount PCB	9	P Pin	1 – .109" (2.76)	A – Cadmium	NN – No Jackpost, No Threaded Insert			These connectors are solder-dipped in 63/37 tin-lead solder.  To delete the solder dip and change to gold-plated terminals, add code 513	
	15		2 – .150" (3.81)	B – Nickel	NU –UN Threaded Insert Only, No Jackposts				
	21		3 – .190" (4.83)	C – Allochrome	NM –Metric Threaded Insert Only, No Jackposts				
	25	S Socket	4 – .250" (6.35)	D – Black Anodize	SU –Short Jackpost and UN Threaded Insert				
	31		5 – Staggered Tail Length	E – Gold	SM –Short Jackpost and Metric Threaded Insert				
	37		Rear Panel Mount Jackposts and Threaded Inserts						
	51		UN Threads    Metric Threads    Panel Thickness						
	100	Length in Inches ± .015 (0.38)	TU    TM    .094" (2.4)						
			VU    VM    .062" (1.6)						
			WU    WM    .047" (1.2)						
		XU    XM    .031" (0.8)							
		YU    YM    .023" (0.6)							
SAMPLE PART NUMBER									
GMR7590	– 31	S	2	B	SU				

### GMR7590 JACKPOST OPTIONS

<b>NN</b>	<b>NU, NM</b>	<b>SN</b>	<b>SU, SM</b>	<b>TU, VU, WU, XU, YU TM, VM, WM, XM, YM</b>
No Jackpost, No Threaded Insert In PCB Mtng Hole	No Jackpost, Threaded Insert In PCB Mounting Hole	Jackpost Installed, No Threaded Insert in PCB Mounting Hole	Jackpost With Threaded Insert	Jackpost for Rear Panel Mounting

## GMR7590 Right Angle Micro-D Connectors

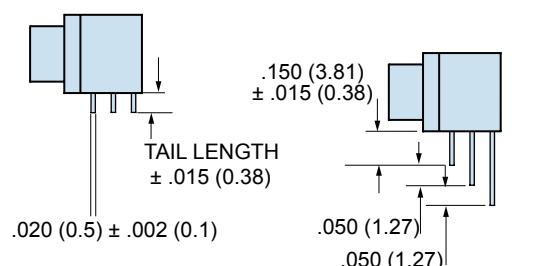
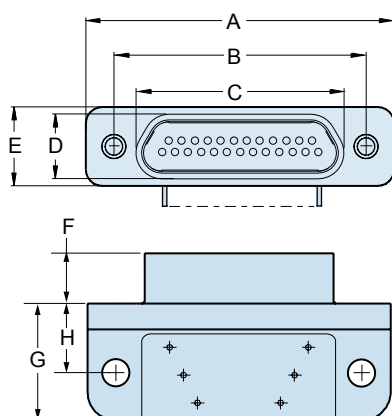


### PERFORMANCE SPECIFICATIONS

Current Rating	3 AMP
DWV	600 VAC Sea level
Insulation Resistance	5000 Megohms Minimum
Contact Resistance	8 Milliohms Maximum
Low Level Contact Resist.	32 Milliohms Maximum
Magnetic Permeability	2 $\mu$ Maximum
Operating Temperature	-55° C. to +150° C.
Shock, Vibration	50 g., 20g.
Mating Force	(10 Ounces) X (# of Contacts)

### MATERIALS AND FINISHES

Connector Shell	Aluminum Alloy 6061 or Stainless Steel, 300 Series, passivated. See Ordering Info for Plating Options
Insulator, Tray	Liquid Crystal Polymer (LCP)
Interfacial Seal	Flourosilicone Rubber, Blue
Pin Contact	Beryllium Copper Gold over Nickel Plating
Socket Contact	Copper Alloy Gold Over Nickel Plating
PCB Terminals	Gold Plated Copper Alloy, Solder Dipped
Hardware	300 Series Stainless Steel
Encapsulant	Epoxy Resin Hysol EE4215



STAGGERED LEADS

SIZES 9 THRU 51 MOUNTING HOLE IS .088/.094 (2.24/2.39)  
SIZE 100 MOUNTING HOLE IS .145/.150 (3.68/3.81)

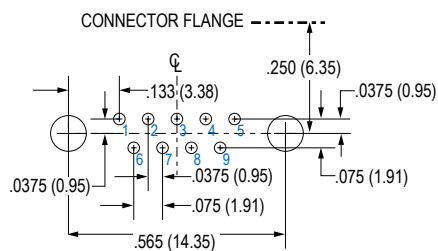
SIZES 9 THRU 51 THREAD SIZE IS #2-56 UNC OR M2.  
SIZE 100 THREAD SIZE IS #4-40 OR M3.

### GMR7590 CONNECTOR DIMENSIONS

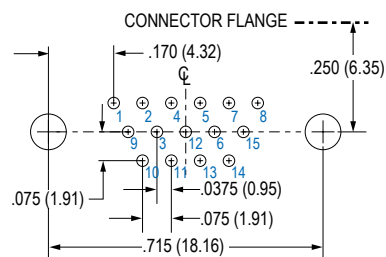
Layout	A Max.		B		C Max.		D Max.		E Max.		F		G Max.		H	
	In.	mm.	In. $\pm .005$	mm. $\pm 0.13$	In. $\pm .005$	mm. $\pm 0.13$	In. $\pm .005$	mm. $\pm 0.13$	In. $\pm .005$	mm. $\pm 0.13$	In. $\pm .003$	mm. $\pm 0.08$	In. $\pm .005$	mm. $\pm 0.13$	In. $\pm .010$	mm. $\pm 0.25$
9P	.785	19.94	.565	14.35	.335	8.51	.185	4.70	.310	7.87	.183	4.65	.400	10.16	.250	6.35
9S	.785	19.94	.565	14.35	.400	10.16	.251	6.38	.310	7.87	.195	4.95	.400	10.16	.250	6.35
15P	.935	23.75	.715	18.16	.485	12.32	.185	4.70	.310	7.87	.183	4.65	.400	10.16	.250	6.35
15S	.935	23.75	.715	18.16	.550	13.97	.251	6.38	.310	7.87	.195	4.95	.400	10.16	.250	6.35
21P	1.085	27.56	.865	21.97	.635	16.13	.185	4.70	.310	7.87	.183	4.65	.400	10.16	.250	6.35
21S	1.085	27.56	.865	21.97	.700	17.78	.251	6.38	.310	7.87	.195	4.95	.400	10.16	.250	6.35
25P	1.185	30.01	.965	24.51	.735	18.67	.185	4.70	.310	7.87	.183	4.65	.400	10.16	.250	6.35
25S	1.185	30.01	.965	24.51	.800	20.32	.251	6.38	.310	7.87	.195	4.95	.400	10.16	.250	6.35
31P	1.335	33.91	1.115	28.32	.885	22.48	.185	4.70	.310	7.87	.183	4.65	.400	10.16	.250	6.35
31S	1.335	33.91	1.115	28.32	.950	24.13	.251	6.38	.310	7.87	.195	4.95	.400	10.16	.250	6.35
37P	1.485	37.72	1.265	32.13	1.035	26.29	.185	4.70	.310	7.87	.183	4.65	.400	10.16	.250	6.35
37S	1.485	37.72	1.265	32.13	1.100	27.94	.251	6.38	.310	7.87	.195	4.95	.400	10.16	.250	6.35
51P	1.435	36.45	1.215	30.86	.985	25.02	.228	5.79	.351	8.92	.183	4.65	.490	12.45	.300	7.62
51S	1.435	36.45	1.215	30.86	1.050	26.67	.294	7.47	.351	8.92	.195	4.95	.490	12.45	.300	7.62
100P	2.170	55.12	1.800	45.72	1.384	35.15	.271	6.88	.394	10.00	.183	4.65	.660	16.76	.400	10.16
100S	2.170	55.12	1.800	45.72	1.508	38.30	.394	10.00	.394	10.00	.195	4.95	.660	16.76	.400	10.16

## GMR7590 CONNECTOR PCB LAYOUTS – PIN CONNECTORS

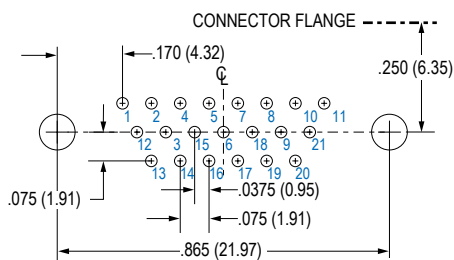
Patterns shown are for connector mounting side of PC board.



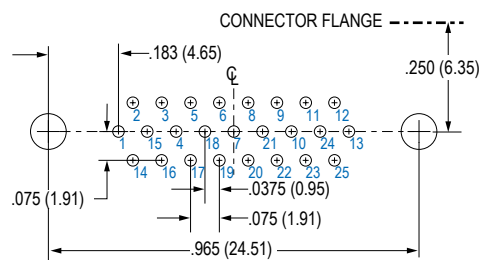
**9 PIN**



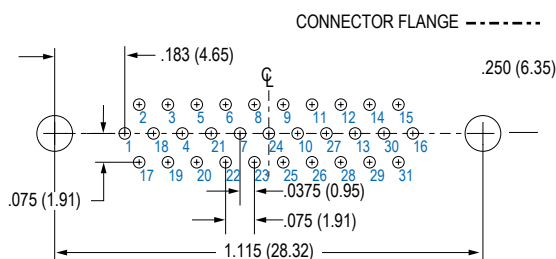
**15 PIN**



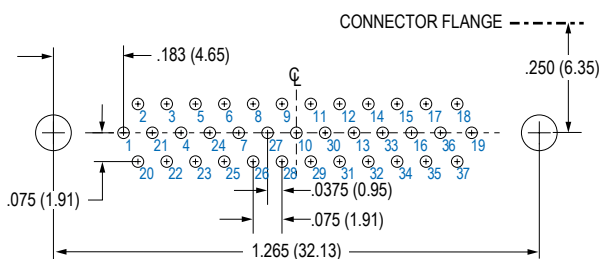
**21 PIN**



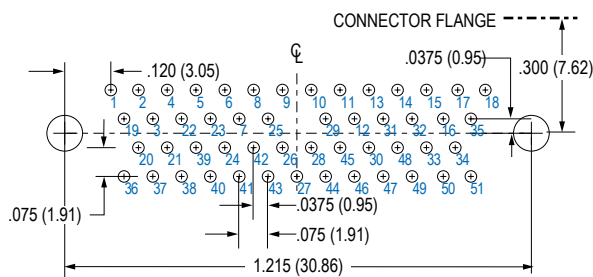
**25 PIN**



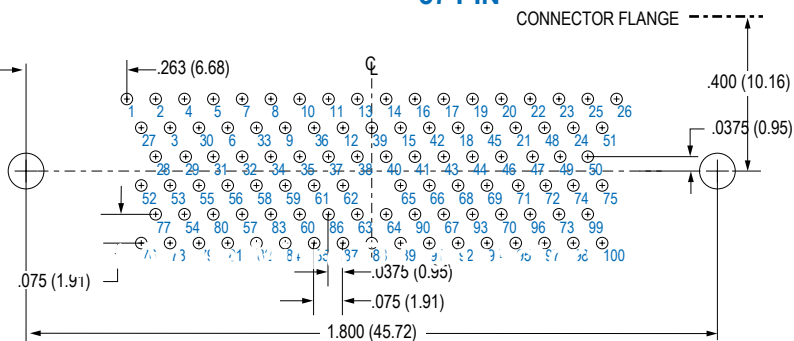
**31 PIN**



**37 PIN**



**51 PIN**



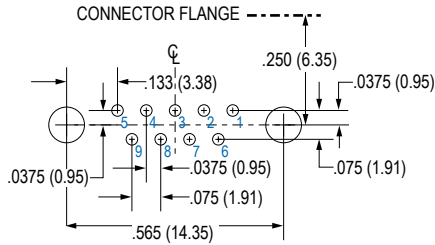
**100 PIN**

# GMR7590 Right Angle Micro-D Connectors

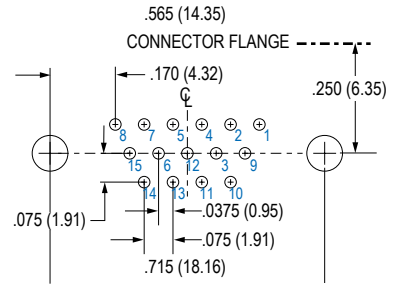


## GMR7590 CONNECTOR PCB LAYOUTS – SOCKET CONNECTORS

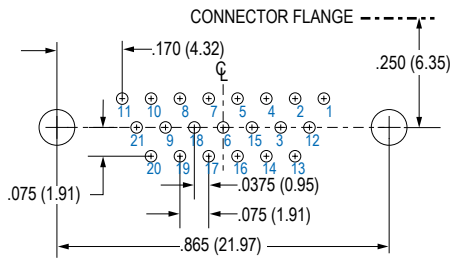
Patterns shown are for connector mounting side of PC board.



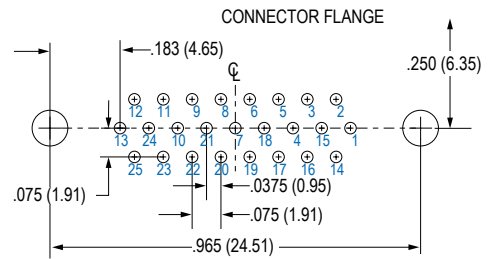
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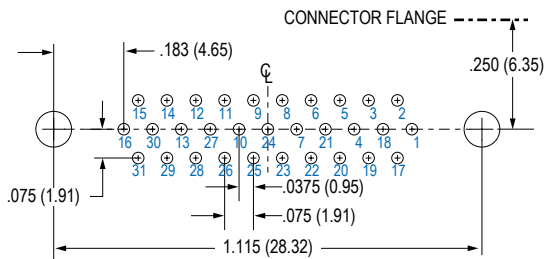
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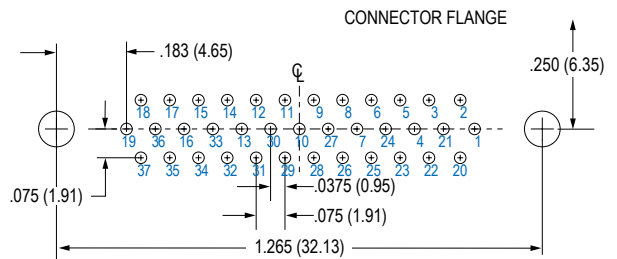
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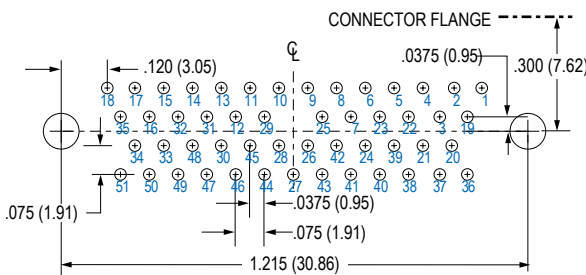
25 SOCKET



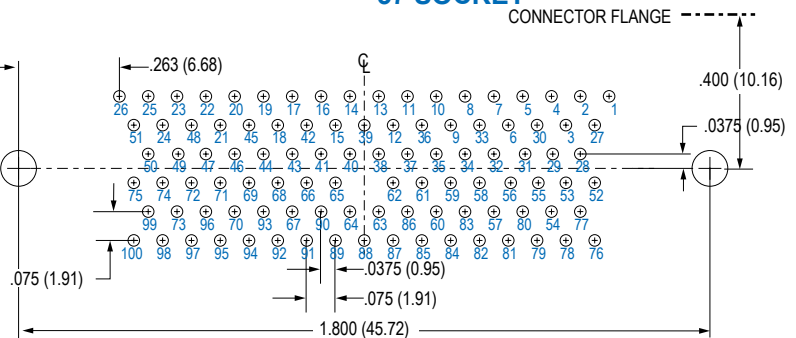
31 SOCKET



37 SOCKET



51 SOCKET



100 SOCKET

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